### **ENVIRONMENTAL CHEMISTS**

Date of Report: 05/29/03 Date Received: 05/22/03

Project: Metro KC Grab, PO# M90913, F&BI 305199

Date Extracted: 05/22/03 Date Analyzed: 05/23/03

# RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Results Reported as mg/L (ppm)

		a a a car		30.8 5.5
Sample ID	Chromi	ium <u>Coppe</u>	r <u>Nickel</u>	<u>Zinc</u>
Laboratory ID			unit unit sup	
M90913	0.62	2 0.78	0.84	0.12
305199-01		i dikabilan		
N(-41-1 D11-	-0.05	· Hillian or	-0.05	-0.10
Method Blank	<0.05	< 0.05	< 0.05	< 0.10

### **ENVIRONMENTAL CHEMISTS**

Date of Report: 05/29/03 Date Received: 05/22/03

Project: Metro KC Grab, PO# M90913, F&BI 305199

# QUALITY ASSURANCE RESULTS FROM TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 305199-01 (Duplicate)

				Relative	
	Reporting	Sample	Duplicat	e Percent	Acceptance
Analyte	Units	Result	Result	Difference	Criteria
Chromium	mg/L (ppm)	0.62	0.62	0	0-20
Copper	mg/L (ppm)	0.78	0.79	1	0-20
Nickel	mg/L (ppm)	0.84	0.86	2	0-20
Zinc	mg/L (ppm)	0.12	0.12	0	0-20

Laboratory Code: 305199-01 (Matrix Spike)

	Reporting	Spike	Sample	% Recov	ery Acceptance
Analyte	Units	Level	Result	MS	Criteria
Chromium	mg/L (ppm)	2	0.62	90	80-120
Copper	mg/L (ppm)	2	0.78	93	80-120
Nickel	mg/L (ppm)	4	0.84	91	80-120
Zinc	mg/L (ppm)	2	0.12	91	80-120

Laboratory Code: Laboratory Control Sample

	Reporting	Spike	% Recove	ery %	Recove	ry A	Acceptance	e R	PD
Analyte	Units	Level	LCS		LCSD		Criteria	(Lin	nit 20)
Chromium	mg/L (ppm)	2	100	S. Proceeding	101		80-120	14 14 14	1
Copper	mg/L (ppm)	2	102		102		80-120		0
Nickel	mg/L (ppm)	4	100		101		80-120		1
Zinc	mg/L (ppm)	2	105		101		80-120		4

Send Report To S.,  Company A C. C.  Address 628 S.  City, State, ZIP Seak  Phone # 26-382-837	1/1/20 1/1/21	Sal Cust	)	PROJE  PROJE	ERS (signal CT NAME/I	vo.				POM S	05/	3	O S O R Rus	Pag TU Standa USH sh cha SA Dispos Return	RNAR ard (2  arges a  AMPLI se afte n samp	COUND Weeks) authorize E DISPO er 30 day	TIME  zed by:  DSAL ys
Sample ID  M SOS /3	Lab ID	Date  5/24	Time	Sample Type	e # of containers	TPH-Diesel	TPH-Gasoline BTEX by 8021B	1	SVOCs by 8270	2	E-QUI	5312				N	otes
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Friedman & Bruya, Inc. 3012 16th Avenue West Seattle, WA 98119-2029 Ph. (206) 285-8282 Fax (206) 283-5044	Refination Received Received	by:	I JATURE	raff	P G. Ti Tara	7.	NAM PX	ر	afF	F	7	MPA			5/6	ATE	TIME 200

### **ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

May 29, 2003

### **DUPLICATE COPY**

### **INVOICE # 03ACU0529-2**

Accounts Payable Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project Metro KC Grab, PO# M90913, F&BI 305199 - Results of testing requested by Gerry Thompson for material submitted on May 22, 2003.

FEDERAL TAX ID #(b) (6)

### **ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

May 29, 2003

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on May 22, 2003 from the Metro KC Grab, PO# M90913, F&BI 305199 project. There are 2 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Charlene Morrow

Charlene Morrow

Chemist

Enclosures ACU0529R.DOC